R&S®RTO2000 Oscilloscopes

Turn your signals into success

The perfect choice for	
Uncompromising for all debugging tasks	Integrated spectrum analysis (EMI tests, connected devices, embedded systems)
Low speed serial debugging	Power integrity and analysis

Engineered for multi-domain challenges

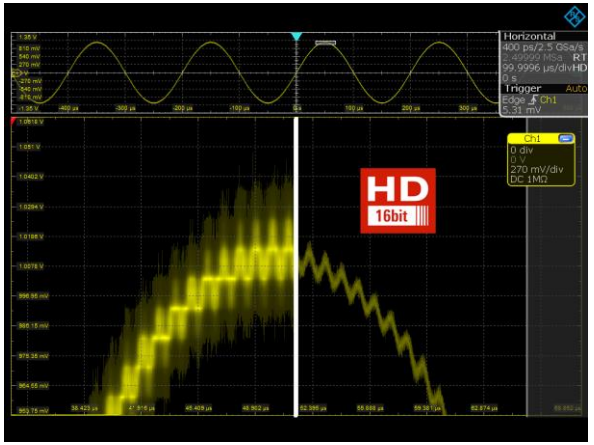
Offering bandwidths from 600 MHz to 6 GHz, R&S®RTO2000 oscilloscopes excel at both time domain and frequency domain testing. Thanks to excellent signal fidelity, responsiveness of 1 million waveforms/s and up to 16-bit vertical resolution, you can measure quickly with confidence. The capacitive touchscreen with SmartGrid makes the R&S®RTO2000 easy and intuitive use.

Key specifications	
Frequency range	600 MHz to 6 GHz
Channels	2/4
Max. sample rate	up to 20 Gsample/s
Max. memory	up to 2 Gsample
Acquisition rate	> 1 000 000 waveforms/s
Vertical resolution	up to 16 bits (standard)
Mixed signal option	16 channels, 400 MHz, 5 Gsample/s sampling rate, 200 Msample/channel

Your benefit	Features
No trade-offs	Best-in-class update rate, memory depth, triggering, sample rate, MSO; integrated hardware based spectrum analysis
Debug in the domain most familiar to you	Best-in-class time domain and frequency domain capability; industry-first ability to trigger in the time or frequency domain and see both domains time correlated
Class-leading 16 bit; and low noise	High definition with 256 times the resolution of 8-bit scopes; 1 mV/div at full bandwidth

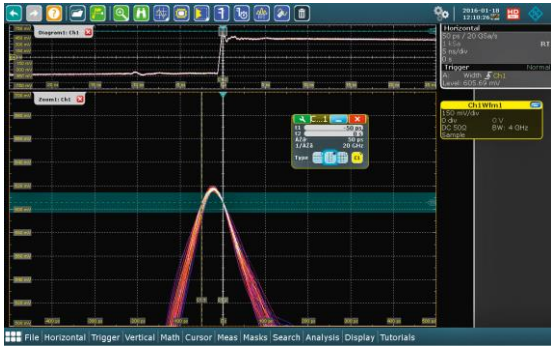
▷ For more information, visit
https://www.rohde-schwarz.com/catalog/RTO

Up to 16-bit vertical resolution



The high definition mode (HD mode) increases the vertical resolution of the R&S®RTO2000 to up to 16 bit. This results in sharper waveforms, showing signal details that would otherwise be masked by noise.

Trigger on any signal detail you can see



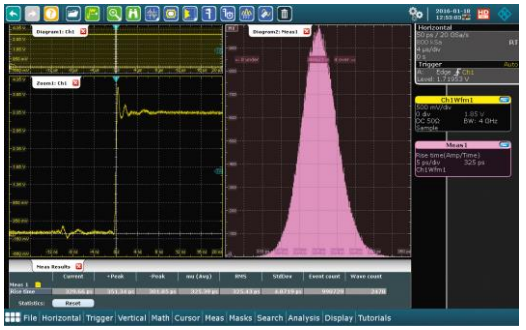
The unique digital trigger system from Rohde & Schwarz minimizes trigger jitter without postprocessing correction. Combined with a high sensitivity that can be extended up to 16 bit in HD mode, you can now reliably isolate even the smallest signals.

Advanced user interface

High-resolution capacitive touchscreen allows users to perform functions through gestures.

- Customize waveform displays
- Drag and drop signal placement
- Superposition windows in multiple tabs
- Quickly access important tools through app cockpit

Deep toolset for signal analysis



R&S®RTO oscilloscopes offer over 90 measurement functions. The functions are organized by type into amplitude and time measurements, jitter, eye, histogram and spectral measurements. Statistics, histograms, and trend and track functions facilitate detailed analysis of the measurement results. The measurement results can also be used in math functions.

Popular options

Hardware options (plug-in)	Type
Mixed signal option, 400 MHz	R&S®RTO-B1
Serial triggering and decoding	
I²C/SPI serial decoding	R&S®RTO-K1
UART/RS-232/RS-422/RS-485 serial decoding	R&S®RTO-K2
CAN/LIN serial triggering and decoding	R&S®RTO-K3
Probes, power integrity	
2 GHz, +/-60 V offset power rail probe	R&S®RT-ZPR20
Probes, single-ended active	
1.5 GHz, active, 1 MΩ, 0.8 pF	R&S®RT-ZS20
6.5 GHz, active, 1 MΩ, 0.3 pF	R&S®RT-ZS60
Probes, differential active	
3.0 GHz, active, differential, 1 MΩ, 0.6 pF	R&S®RT-ZD30
4.5 GHz, active, differential, 1 MΩ, 0.4 pF	R&S®RT-ZD40
Probes, current	
10 MHz, current, AC/DC, 0.01 V/A, 150 A (RMS)	R&S®RT-ZC10B
Analysis	
High definition mode	R&S®RTO-K17
Power analysis	R&S®RTO-K31
Time/frequency zone trigger	R&S®RTO-K19

Rohde & Schwarz Representative

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